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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/810,191	03/26/2004	Kari Terho	6009-4698	8643
27123	7590	03/22/2007	EXAMINER	
MORGAN & FINNEMAN, L.L.P. 3 WORLD FINANCIAL CENTER NEW YORK, NY 10281-2101			HODGE, ROBERT W	
		ART UNIT	PAPER NUMBER	
		1745		
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	03/22/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)
	10/810,191	TERHO, KARI
	Examiner	Art Unit
	Robert Hodge	1745

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 26 March 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-8 is/are pending in the application.
 - 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-8 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____. |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date <u>3/29/05</u> . | 6) <input type="checkbox"/> Other: _____. |

DETAILED ACTION

Information Disclosure Statement

The Information Disclosure Statement filed 3/29/05 has been considered by the Examiner and has been placed in the application file.

Specification

The abstract of the disclosure is objected to because the wrong decimal form has been used. Correction is required. See MPEP § 608.01(b).

The disclosure is objected to because of the following informalities: Similarly as with the Abstract, in various locations throughout the specification the wrong decimal form has been used.

Appropriate correction is required.

Claim Rejections - 35 USC § 101 & 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8 provides for the use of a copper tin alloy, but, since the claim does not set forth any steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim 8 is rejected under 35 U.S.C. 101 because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example *Ex parte Dunki*, 153 USPQ 678 (Bd. App. 1967) and *Clinical Products, Ltd. v. Brenner*, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

As long as a copper tin alloy is found in an alkaline cell it will read on claim 8 as recited.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 4 and 8 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by U.S. Patent No. 4,791,036 hereinafter Schrenk.

Schrenk clearly teaches a cylindrical (i.e. circular cross-section) anode conductor for Alkaline cells comprising copper and tin, with tin being present at 1% by weight (column 1, line 7 – column 2, line 43). The Examiner notes that, absent a clear

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indication in the specification or claims of what the basic and novel characteristics actually are, "consisting essentially of" will be construed as equivalent to "comprising".

See, e.g., PPG, 156 F.3d at 1355, 48 USPQ2d at 1355

Claim 1 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by U.S. Patent No. 3,246,191 hereinafter Frentrop.

Frentrop teaches that an alloy of copper and tin is an electrically conductive resilient material (column 12, lines 62-64). The Examiner notes that no patentable weight has been given to the recitation of "for an alkaline electrochemical cell", since said recitation is intended use and there is no positive recitation in the body of the claim reciting positive structure of an alkaline electrochemical cell.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 3 and 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Schrenk.

Schrenk as discussed above is incorporated herein.

With regards to claim 3 Schrenk discloses the claimed invention except for the specific amount of tin present in the alloy. It would have been obvious to one having ordinary skill in the art that the claimed range is reasonably close to the disclosure of Schrenk and that one of ordinary skill in the art would not expect a difference in properties, in the absence of unexpected results, especially since the values recited in the claims are so small with respect to the remainder of the overall alloy composition. In re Woodruff 16 USPQ 2d 1934 (Fed Cir. 1990); Titanium Metals Corp. v. Banner 227 USPQ 773 (Fed. Cir. 1985); In re Aller 105 USPQ 233 (CCPA 1955).

With regards to claims 5-7 Schrenk discloses the claimed invention except for the various shapes of the cross-section of the contact element. It would have been obvious to modify the cross-sectional shape of the contact element because applicant has not disclosed that having different cross-sectional shapes solves any stated problem or is for any particular purpose (see page 2, lines 13-15 of the specification). Therefore it would have been well within the skill of one of ordinary skill in the art at the time the invention was made to modify the cross-sectional shape of the contact element of Schrenk in order to accommodate the housing that the contact element will be used in or to increase/decrease the surface area of the contact element to change the operational state of the battery and because it is within the general skill of a worker in

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the art to select a known construction on the basis of its suitability. *In re Dailey* 149 USPQ 47, 50 (CCPA 1966). See also *Glue Co. v. Upton* 97 US 3, 24 (USSC 1878).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Hodge whose telephone number is (571) 272-2097. The examiner can normally be reached on 8:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RWH

J.C.
JONATHAN CREPEAU
PRIMARY EXAMINER